

<u>S46</u>	ALL	stretching or stretched) and (shrink or shrinking or shrunk) and (resolution or focus or sharp or sharper or sharpness) and (fit or fitting or fitted) processor and (display or monitor or lcd or crt) and (memory or storage or buffer) and (cursor same shape) and (program or code or command) and (warp or warping or warped) and (smooth or smoothing or smoothed) and (stretch or stretching or stretched) and (shrink or shrinking or shrunk) and (resolution or focus or sharp or sharper or sharpness) and (fit or fitting or fitted) and (toggle or toggling or toggled)
<u>S45</u>	ALL	processor and (display or monitor or lcd or crt) and (memory or storage or buffer)
<u>S44</u>	ALL	processor and (display or monitor or lcd or crt) and (memory or storage or buffer) and (cursor same shape) and (program or code or command) and (warp or warping or warped) and (smooth or smoothing or smoothed) and (stretch or stretching or stretched) and (shrink or shrinking or shrunk) and (resolution or focus or sharp or sharper or sharpness) and (fit or fitting or fitted) and (toggle or toggling or toggled) and (restore or restoring or restored) and (undo or undoing or undid)
<u>S43</u> Displays	USPT	4519008.pn. or 5619636.pn. or 5945998.pn. or 5778808.pn. or 5920317.pn. or 5973702.pn. or 5621874.pn.
<u>S42</u> Graphics Memory	USPT	5043921.pn.
<u>S41</u> Print Jams	USPT	5287194.pn. or 5156468.pn. or 5727220.pn. or 5450130.pn. or 5257035.pn. or 6006012.pn. 5148254.pn.
<u>S40</u> Color Processing	USPT	5594854.pn. or 5351067.pn. or 4903101.pn. or 5526255.pn. or 5825936.pn. or 5298993.pn. or 5381349.pn. or 4959711.pn. or 5345320.pn. or 5729624.pn. 5313291.pn. or 5721623.pn. or 5539540.pn. or 5758042.pn. or 5852742.pn. or 5511152.pn. or 5926617.pn. or 6008907.pn.
<u>S39</u>	ALL	(store or storing or stored or replace or replacing or replaced) and operand and register and (pack or packing or packed) and (destination adj (field or area))
<u>S38</u>	ALL	(store or storing or stored or replace or replacing or replaced) same operand same register same destination same (pack or packing or packed) same (field or area)
<u>S37</u>	ALL	((((store or storing or stored or replace or replacing or replaced) same operand) and (float

09/053, 006

<u>S36</u>	ALL	or floating) and integer and (pack or packing or packed)) and destination and (field or area) and register
<u>S35</u> Animation	USPT	((store or storing or stored or replace or replacing or replaced) same operand) and (float or floating) and integer and (pack or packing or packed)
<u>S34</u> Scene Reconstruction	USPT	5261041.pn. or 5625575.pn.
<u>S33</u> ResolutionDotCodePrintPlate	USPT	5109425.pn. or 5598515.pn. or 4003642.pn. or 5668631.pn.
<u>S32</u> Z-Buf/Other Syn. Image Rendering	USPT	5457541.pn. or 4737858.pn.
<u>S31</u> Virtual/Pseudo-Human Figures	USPT	5870097.pn. or 5604849.pn. or 5923333.pn. or 5471567.pn. or 5359704.pn. or 4825391.pn.
<u>S30</u> Video Images	USPT	5923337.pn. or 5877778.pn.
<u>S29</u> Mesh Reconstruction	USPT	5237648.pn. or 5099342.pn.
<u>S28</u> Texture Mapping	USPT	5929860.pn. or 5905507.pn. or 5870097.pn. or 5886706.pn.

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* * * * *
*       U. S.   P A T E N T   T E X T   F I L E
*
*   THE WEEKLY PATENT TEXT AND IMAGE DATA IS CURRENT
*   THROUGH September 07, 1999.
*
* * * * *

```

=> file uspat epo jpo; s ((stor? or replace?) (p) operand? (p) ((high or low) (w) order) or leftmost or rightmost)) and float? and integer? and pack? and (3d or (3 (w) d) or (three (w) dimension?))

FILE 'USPAT' ENTERED AT 14:38:50 ON 10 SEP 1999

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* * * * *
*       U. S.   P A T E N T   T E X T   F I L E
*
*   THE WEEKLY PATENT TEXT AND IMAGE DATA IS CURRENT
*   THROUGH September 07, 1999.
*
* * * * *

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FILE 'EPO' ENTERED AT 14:38:50 ON 10 SEP 1999

```

* * * * *
*               G P I
*   E U R O P E A N   P A T E N T   A B S T R A C T S
* * * * *

```

FILE 'JPO' ENTERED AT 14:38:50 ON 10 SEP 1999

```

* * * * *
*               G P I
*   J A P A N E S E   P A T E N T   A B S T R A C T S
*
*   THE FILE IS CURRENT THROUGH APRIL 31, 1999..
* * * * *

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FILE 'USPAT'

```

740746 STOR?
598171 REPLACE?
9869 OPERAND?
1485671 HIGH
1165499 LOW
1465837 ORDER
11030 LEFTMOST
8712 RIGHTMOST
444 (STOR? OR REPLACE?) (P) OPERAND? (P) (((HIGH OR LOW) (W) OR

```

DER

```

) OR LEFTMOST OR RIGHTMOST)
132117 FLOAT?
127762 INTEGER?
365390 PACK?
40644 3D
2478082 3

```

1016188 D
 24340 3 (W) D
 1073871 THREE
 645910 DIMENSION?
 70848 THREE (W) DIMENSION?
 L1 12 ((STOR? OR REPLACE?) (P) OPERAND? (P) (((HIGH OR LOW) (W) O
 RDE R) OR LEFTMOST OR RIGHTMOST)) AND FLOAT? AND INTEGER? AND P
 ACK ? AND (3D OR (3 (W) D) OR (THREE (W) DIMENSION?))

FILE 'EPO'

177494 STOR?
 39756 REPLACE?
 1372 OPERAND?
 269529 HIGH
 156319 LOW
 169182 ORDER
 54 LEFTMOST
 46 RIGHTMOST
 11 (STOR? OR REPLACE?) (P) OPERAND? (P) (((HIGH OR LOW) (W) OR
 DER) OR LEFTMOST OR RIGHTMOST)
 28211 FLOAT?
 18169 INTEGER?
 72018 PACK?
 1244 3D
 345452 3
 63218 D
 835 3 (W) D
 92622 THREE
 67122 DIMENSION?
 12061 THREE (W) DIMENSION?
 L2 0 ((STOR? OR REPLACE?) (P) OPERAND? (P) (((HIGH OR LOW) (W) O
 RDE R) OR LEFTMOST OR RIGHTMOST)) AND FLOAT? AND INTEGER? AND P
 ACK ? AND (3D OR (3 (W) D) OR (THREE (W) DIMENSION?))

FILE 'JPO'

536459 STOR?
 43950 REPLACE?
 2418 OPERAND?
 1040677 HIGH
 460447 LOW
 219262 ORDER
 334 LEFTMOST
 223 RIGHTMOST
 21 (STOR? OR REPLACE?) (P) OPERAND? (P) (((HIGH OR LOW) (W) OR
 DER) OR LEFTMOST OR RIGHTMOST)
 54707 FLOAT?
 30146 INTEGER?
 121574 PACK?
 9884 3D
 1748588 3
 243633 D
 530 3 (W) D
 138393 THREE
 98899 DIMENSION?

24036 THREE (W) DIMENSION?
 L3 0 ((STOR? OR REPLACE?) (P) OPERAND? (P) (((HIGH OR LOW) (W) O
 RDE R) OR LEFTMOST OR RIGHTMOST)) AND FLOAT? AND INTEGER? AND P
 ACK ? AND (3D OR (3 (W) D) OR (THREE (W) DIMENSION?))

TOTAL FOR ALL FILES
 L4 12 ((STOR? OR REPLACE?) (P) OPERAND? (P) (((HIGH OR LOW) (W) O
 RDE R) OR LEFTMOST OR RIGHTMOST)) AND FLOAT? AND INTEGER? AND P
 ACK ? AND (3D OR (3 (W) D) OR (THREE (W) DIMENSION?))

=> d 11 1-12 pno

1.	5,936,872	[IMAGE AVAILABLE]
2.	5,680,568	[IMAGE AVAILABLE]
3.	5,113,523	[IMAGE AVAILABLE]
4.	4,785,393	[IMAGE AVAILABLE]
5.	4,595,911	[IMAGE AVAILABLE]
6.	4,525,780	[IMAGE AVAILABLE]
7.	4,495,563	[IMAGE AVAILABLE]
8.	4,493,027	[IMAGE AVAILABLE]
9.	4,471,426	[IMAGE AVAILABLE]
10.	4,455,602	[IMAGE AVAILABLE]
11.	4,325,120	[IMAGE AVAILABLE]
12.	3,626,427	[IMAGE AVAILABLE]

=> d 11 1 ccls in hit

US PAT NO: 5,936,872 [IMAGE AVAILABLE] L1: 1 of 12
 US-CL-CURRENT: 708/622; 712/221
 INVENTOR: Stephen A. Fischer, Rancho Cordova, CA
 Larry M. Mennemeier, Boulder Creek, CA
 Alexander D. Peleg, Carmelia, Israel
 Carole Dulong, Saratoga, CA
 Eiichi Kowashi, Ibaraki, Japan

ABSTRACT:

The invention provides a method and apparatus for storing complex data in formats which allow efficient complex multiplication operations to be performed and for performing such complex multiplication operations. According to one aspect of the invention, a method for multiplying complex numbers is provided for use in a data processing system. In response to receiving an instruction, eight data elements are read and used to generate a resulting complex number. These eight data elements were previously stored as **packed** data and include two representations of each of the components of a first and second complex number. Each of these representations is signed such that it represents either the positive or negative of said component. As a result of the manner in which these eight data elements are stored, the resulting complex number represents the product of the first and second complex numbers. According to another aspect of the invention, a machine-readable medium is described. This machine-readable medium has stored thereon data representing sequences of instructions which, when executed by a processor, cause that processor to perform the above described method.

SUMMARY:

the K register positions 0 to 63 and the M register positions 0 to 63. The product may have one leading zero digit thus being unnormalized because the multiplicand was digit normalized but not bit normalized and the last nonzero multiplier group may have had leading zero bits. The shift counter may or may not be equal to zero. If it is not zero, it contains a value equal to the number of leading zero digits that were in the multiplier fraction since it was originally set to a value equal to the total number of multiplier digits. The Put-Away 1 trigger is set and K register positions 0 to 55 (product fraction) and the exponent register (product exponent) are put into the floating point register. However, the product is not valid if the product fraction is unnormalized or the shift counter is not equal to zero. If the fraction is unnormalized, M register positions 0 to 55 are gated to the T/C input of the main adder, the L4 shift is selected, and the AOB is gated to both the K register positions 0 to 63 and the M register positions 0 to 63. The shift counter is gated to the T/C input of the exponent adder and the exponent register (product exponent) is gated to the other input. The T/C input is selected complement and the AE hot one trigger is set so that the shift counter is subtracted from the exponent register. The AEOB position 1 is complemented because exponents and floating point multiply shift counter values are excess 64 numbers and the result is put into the exponent register. The AE hot one trigger is not set if the product fraction is unnormalized. This reduces the product exponent by the shift counter value plus one. The shift counter is set to zero with the next A sample. The Put-Away 1 trigger is set again with the same sample along with the ELC trigger and the product fraction and exponent are put into the floating point register.

=> d hist

(FILE 'USPAT' ENTERED AT 14:24:19 ON 10 SEP 1999)

FILE 'USPAT, EPO, JPO' ENTERED AT 14:38:50 ON 10 SEP 1999
FILE 'USPAT'

L1 12 S ((STOR? OR REPLACE?) (P) OPERAND? (P) (((HIGH OR LOW) (W
) O
FILE 'EPO'

L2 0 S ((STOR? OR REPLACE?) (P) OPERAND? (P) (((HIGH OR LOW) (W
) O
FILE 'JPO'

L3 0 S ((STOR? OR REPLACE?) (P) OPERAND? (P) (((HIGH OR LOW) (W
) O
TOTAL FOR ALL FILES

L4 12 S ((STOR? OR REPLACE?) (P) OPERAND? (P) (((HIGH OR LOW) (W
) O

=> s ((stor? or replace?) (p) operand?) and float? and integer? and pack? and
(3d or (3 (w) d) or (three (w) dimension?))

FILE 'USPAT'
740746 STOR?
598171 REPLACE?
9869 OPERAND?
6286 (STOR? OR REPLACE?) (P) OPERAND?
<-----User Break----->

u
SEARCH ENDED BY USER

FILE 'EPO'
SEARCH ENDED BY USER

=> s ((stor? or replace?) (p) operand?) and float? and integer? and pack? and
(3d or (3 (w) d) or (three (w) dimension?))

<-----User Break----->

u
SEARCH ENDED BY USER

=> s ((stor? or replace? or overlay? or overlai?) (p) operand?) and float?
and integer? and pack? and (3d or (3 (w) d) or (three (w) dimension?))

FILE 'USPAT'

740746 STOR?
598171 REPLACE?
42820 OVERLAY?
18486 OVERLAI?
9869 OPERAND?
6292 (STOR? OR REPLACE? OR OVERLAY? OR OVERLAI?) (P) OPERAND?
132117 FLOAT?
127762 INTEGER?
365390 PACK?
40644 3D
2478082 3
1016188 D
24340 3 (W) D
1073871 THREE
645910 DIMENSION?
70848 THREE (W) DIMENSION?
L5 222 ((STOR? OR REPLACE? OR OVERLAY? OR OVERLAI?) (P) OPERAND?)
AND
FLOAT? AND INTEGER? AND PACK? AND (3D OR (3 (W) D) OR (THR
EE
(W) DIMENSION?))

FILE 'EPO'

177494 STOR?
39756 REPLACE?
4260 OVERLAY?
1440 OVERLAI?
1372 OPERAND?
600 (STOR? OR REPLACE? OR OVERLAY? OR OVERLAI?) (P) OPERAND?
28211 FLOAT?
18169 INTEGER?
72018 PACK?
1244 3D
345452 3
63218 D
835 3 (W) D
92622 THREE
67122 DIMENSION?
12061 THREE (W) DIMENSION?
L6 0 ((STOR? OR REPLACE? OR OVERLAY? OR OVERLAI?) (P) OPERAND?)
AND
FLOAT? AND INTEGER? AND PACK? AND (3D OR (3 (W) D) OR (THR
EE

(W) DIMENSION?))

FILE 'JPO'

536459 STOR?
43950 REPLACE?
2360 OVERLAY?
1902 OVERLAI?
2418 OPERAND?
1192 (STOR? OR REPLACE? OR OVERLAY? OR OVERLAI?) (P) OPERAND?
54707 FLOAT?
30146 INTEGER?
121574 PACK?
9884 3D
1748588 3
243633 D
530 3 (W) D
138393 THREE
98899 DIMENSION?
24036 THREE (W) DIMENSION?
L7 0 ((STOR? OR REPLACE? OR OVERLAY? OR OVERLAI?) (P) OPERAND?)
AND
FLOAT? AND INTEGER? AND PACK? AND (3D OR (3 (W) D) OR (THR
EE
(W) DIMENSION?))

TOTAL FOR ALL FILES

L8 222 ((STOR? OR REPLACE? OR OVERLAY? OR OVERLAI?) (P) OPERAND?)
AND
FLOAT? AND INTEGER? AND PACK? AND (3D OR (3 (W) D) OR (THR
EE
(W) DIMENSION?))

=> logoff y

U.S. Patent & Trademark Office LOGOFF AT 15:53:13 ON 10 SEP 1999

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* * * * *
*       U. S.   P A T E N T   T E X T   F I L E
*
*   THE WEEKLY PATENT TEXT AND IMAGE DATA IS CURRENT
*   THROUGH September 07, 1999.
*
* * * * *

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=> file uspat epo jpo

FILE 'USPAT' ENTERED AT 11:04:09 ON 10 SEP 1999

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* * * * *
*       U. S.   P A T E N T   T E X T   F I L E
*
*   THE WEEKLY PATENT TEXT AND IMAGE DATA IS CURRENT
*   THROUGH September 07, 1999.
*
* * * * *

```

FILE 'EPO' ENTERED AT 11:04:09 ON 10 SEP 1999

```

* * * * *
*                               G P I
*   E U R O P E A N   P A T E N T   A B S T R A C T S
* * * * *

```

FILE 'JPO' ENTERED AT 11:04:09 ON 10 SEP 1999

```

* * * * *
*                               G P I
*   J A P A N E S E   P A T E N T   A B S T R A C T S
*
*   THE FILE IS CURRENT THROUGH APRIL 31, 1999.
* * * * *

```

=> s ((mov? or transfer?) (p) (64 (w) bit?) (p) (storage or memory) (p) (128 (w) bit?) (p) register? (p) ((high? or low?) (w) order (w) bit?)) and float? and integer? and pack? and (3d or (three (w) dimension?))

FILE 'USPAT'

```

1247688 MOV?
617118 TRANSFER?
660243 64
233638 BIT?
442434 STORAGE
264507 MEMORY
234148 128
233638 BIT?
216994 REGISTER?

```

TERM 'LOW?' EXCEEDED TRUNCATION LIMITS - SEARCH ENDED
COMMAND INTERRUPTED

=> s ((mov? or transfer?) (p) (64 (w) bit?) (p) (storage or memory) (p) (128 (w) bit?) (p) register? (p) (((high or low) (w) order) or leftmost or rightmost) (w) bit?)) and float? and integer? and pack? and (3d or (three (w) dimension?))

FILE 'USPAT'
 <-----User Break----->
 u
 SEARCH ENDED BY USER

=> s ((mov? or transfer?) (p) (64 (w) bit?) (p) (storage or memory) (p) (128 (w) bit?) (p) register? (p) (((high or low) (w) order) or leftmost or rightmost) (3w) bit?)) and float? and integer? and pack? and (3d or (three (w) dimension?))

FILE 'USPAT'

	1247688	MOV?
	617118	TRANSFER?
	660243	64
	233638	BIT?
	442434	STORAGE
	264507	MEMORY
	234148	128
	233638	BIT?
	216994	REGISTER?
	1485671	HIGH
	1165499	LOW
	1465837	ORDER
	11030	LEFTMOST
	8712	RIGHTMOST
	233638	BIT?
	0	(MOV? OR TRANSFER?) (P) (64 (W) BIT?) (P) (STORAGE OR MEMOR
Y)		(P) (128 (W) BIT?) (P) REGISTER? (P) (((HIGH OR LOW) (W) O
RDE		R) OR LEFTMOST OR RIGHTMOST) (3W) BIT?)
	132117	FLOAT?
	127762	INTEGER?
	365390	PACK?
	40644	3D
	1073871	THREE
	645910	DIMENSION?
	70848	THREE (W) DIMENSION?
L1	0	((MOV? OR TRANSFER?) (P) (64 (W) BIT?) (P) (STORAGE OR MEMO
RY)		(P) (128 (W) BIT?) (P) REGISTER? (P) (((HIGH OR LOW) (W)
ORD		ER) OR LEFTMOST OR RIGHTMOST) (3W) BIT?)) AND FLOAT? AND IN
TEG		ER? AND PACK? AND (3D OR (THREE (W) DIMENSION?))

FILE 'EPO'

	433072	MOV?
	104712	TRANSFER?
	10796	64
	40427	BIT?
	86427	STORAGE
	73122	MEMORY
	1985	128
	40427	BIT?
	27065	REGISTER?
	269529	HIGH
	156319	LOW
	169182	ORDER

54 LEFTMOST
 46 RIGHTMOST
 40427 BIT?
 0 (MOV? OR TRANSFER?) (P) (64 (W) BIT?) (P) (STORAGE OR MEMOR
 Y)
 (P) (128 (W) BIT?) (P) REGISTER? (P) (((HIGH OR LOW) (W) O
 RDE
 R) OR LEFTMOST OR RIGHTMOST) (3W) BIT?)
 28211 FLOAT?
 18169 INTEGER?
 72018 PACK?
 1244 3D
 92622 THREE
 67122 DIMENSION?
 12061 THREE (W) DIMENSION?
 L2 0 ((MOV? OR TRANSFER?) (P) (64 (W) BIT?) (P) (STORAGE OR MEMO
 RY)
 (P) (128 (W) BIT?) (P) REGISTER? (P) (((HIGH OR LOW) (W)
 ORD
 ER) OR LEFTMOST OR RIGHTMOST) (3W) BIT?)) AND FLOAT? AND IN
 TEG
 ER? AND PACK? AND (3D OR (THREE (W) DIMENSION?))

 FILE 'JPO'
 537036 MOV?
 280043 TRANSFER?
 21235 64
 95990 BIT?
 228050 STORAGE
 277439 MEMORY
 2665 128
 95990 BIT?
 112068 REGISTER?
 1040677 HIGH
 460447 LOW
 219262 ORDER
 334 LEFTMOST
 223 RIGHTMOST
 95990 BIT?
 0 (MOV? OR TRANSFER?) (P) (64 (W) BIT?) (P) (STORAGE OR MEMOR
 Y)
 (P) (128 (W) BIT?) (P) REGISTER? (P) (((HIGH OR LOW) (W) O
 RDE
 R) OR LEFTMOST OR RIGHTMOST) (3W) BIT?)
 54707 FLOAT?
 30146 INTEGER?
 121574 PACK?
 9884 3D
 138393 THREE
 98899 DIMENSION?
 24036 THREE (W) DIMENSION?
 L3 0 ((MOV? OR TRANSFER?) (P) (64 (W) BIT?) (P) (STORAGE OR MEMO
 RY)
 (P) (128 (W) BIT?) (P) REGISTER? (P) (((HIGH OR LOW) (W)
 ORD
 ER) OR LEFTMOST OR RIGHTMOST) (3W) BIT?)) AND FLOAT? AND IN
 TEG
 ER? AND PACK? AND (3D OR (THREE (W) DIMENSION?))

TOTAL FOR ALL FILES

```

L4          0 ((MOV? OR TRANSFER?) (P) (64 (W) BIT?) (P) (STORAGE OR MEMO
RY)          (P) (128 (W) BIT?) (P) REGISTER? (P) (((HIGH OR LOW) (W)
ORD          ER) OR LEFTMOST OR RIGHTMOST) (3W) BIT?)) AND FLOAT? AND IN
TEG         ER? AND PACK? AND (3D OR (THREE (W) DIMENSION?))

```

```

=> s ((mov? or transfer?) (p) (storage or memory) (p) register? (p) (((high
or low) (w) order) or leftmost or rightmost) (3w) bit?)) and float? and
integer? and pack? and (3d or (three (w) dimension?))

```

FILE 'USPAT'

```

1247688 MOV?
617118 TRANSFER?
442434 STORAGE
264507 MEMORY
216994 REGISTER?
1485671 HIGH
1165499 LOW
1465837 ORDER
11030 LEFTMOST
8712 RIGHTMOST
233638 BIT?
464 ((MOV? OR TRANSFER?) (P) (STORAGE OR MEMORY) (P) REGISTER? (
P)          (((HIGH OR LOW) (W) ORDER) OR LEFTMOST OR RIGHTMOST) (3W)
BIT         ?)
132117 FLOAT?
127762 INTEGER?
365390 PACK?
40644 3D
1073871 THREE
645910 DIMENSION?
70848 THREE (W) DIMENSION?
L5          10 ((MOV? OR TRANSFER?) (P) (STORAGE OR MEMORY) (P) REGISTER?
(P)          (((HIGH OR LOW) (W) ORDER) OR LEFTMOST OR RIGHTMOST) (3W)
BI          T?)) AND FLOAT? AND INTEGER? AND PACK? AND (3D OR (THREE (W
) D         IMENSION?))

```

FILE 'EPO'

```

433072 MOV?
104712 TRANSFER?
86427 STORAGE
73122 MEMORY
27065 REGISTER?
269529 HIGH
156319 LOW
169182 ORDER
54 LEFTMOST
46 RIGHTMOST
40427 BIT?
4 ((MOV? OR TRANSFER?) (P) (STORAGE OR MEMORY) (P) REGISTER? (
P)          (((HIGH OR LOW) (W) ORDER) OR LEFTMOST OR RIGHTMOST) (3W)
BIT

```

```

        ?)
28211 FLOAT?
18169 INTEGER?
72018 PACK?
1244 3D
92622 THREE
67122 DIMENSION?
12061 THREE (W) DIMENSION?
L6      0 ((MOV? OR TRANSFER?) (P) (STORAGE OR MEMORY) (P) REGISTER?
(P)
        (((HIGH OR LOW) (W) ORDER) OR LEFTMOST OR RIGHTMOST) (3W)
BI
        T?)) AND FLOAT? AND INTEGER? AND PACK? AND (3D OR (THREE (W
) D
        IMENSION?))

```

FILE 'JPO'

```

537036 MOV?
280043 TRANSFER?
228050 STORAGE
277439 MEMORY
112068 REGISTER?
1040677 HIGH
460447 LOW
219262 ORDER
334 LEFTMOST
223 RIGHTMOST
95990 BIT?
40 (MOV? OR TRANSFER?) (P) (STORAGE OR MEMORY) (P) REGISTER? (
P)
        (((HIGH OR LOW) (W) ORDER) OR LEFTMOST OR RIGHTMOST) (3W)
BIT

```

```

        ?)
54707 FLOAT?
30146 INTEGER?
121574 PACK?
9884 3D
138393 THREE
98899 DIMENSION?
24036 THREE (W) DIMENSION?
L7      0 ((MOV? OR TRANSFER?) (P) (STORAGE OR MEMORY) (P) REGISTER?
(P)
        (((HIGH OR LOW) (W) ORDER) OR LEFTMOST OR RIGHTMOST) (3W)
BI
        T?)) AND FLOAT? AND INTEGER? AND PACK? AND (3D OR (THREE (W
) D
        IMENSION?))

```

TOTAL FOR ALL FILES

```

L8      10 ((MOV? OR TRANSFER?) (P) (STORAGE OR MEMORY) (P) REGISTER?
(P)
        (((HIGH OR LOW) (W) ORDER) OR LEFTMOST OR RIGHTMOST) (3W)
BI
        T?)) AND FLOAT? AND INTEGER? AND PACK? AND (3D OR (THREE (W
) D
        IMENSION?))

```

=> d 15 1-10 fd